

9/2 1987  
EPA Region 5 Records Ctr.



298167

(SI)  
FINAL REPORT FOR  
CHEMETCO, INC.  
APRIL 12, 1987

CHEMETCO, INC.  
HARTFORD, ILLINOIS  
F05-8703-418

ILDO48843809

RECEIVED

1987

PLANNING AND RESEARCH

Prepared by Philip A. Smith  
Ecology and Environment, Inc.  
September 30, 1987

# 00460

## **SITE INSPECTION MEMO**

**1**

## **2070 — 13 FORM**

**2**

## **SITE MAPS**

**3**

## **SITE PHOTOGRAPHS**

**4**

## **ANALYTICAL DATA**

**5**



## INTRODUCTION

Chemetco, Inc. (Chemetco) operates a secondary copper smelter in Hartford, Illinois (SE1/4, Sec. 16, T. 4N., R. 3E., Madison County). Hartford is located north of Alton, Illinois, near St. Louis, Missouri. Chemetco is a major producer of high purity copper, lead, tin, nickel, and their alloys derived from recycling. The operation is regulated by the Resource Conservation and Recovery Act (RCRA) as a treatment and storage facility for hazardous waste. A vicinity map is shown in Figure 1 and Figure 2 provides a map of the facility.

## SITE HISTORY

The company was incorporated June 9, 1969, as Chemetco Metals Corp. and began copper production in March 1972. In 1973, the corporation changed its name to Chemetco, Inc.

Chemetco was recognized as a potential dioxin site in early 1987 following two dioxin studies of IBS, Inc., of Peoria, Illinois by a U.S. Environmental Protection Agency (U.S. EPA) Tier Four dioxin study. IBS was a metal salvage facility that reclaimed metals primarily from automobiles but had also processed junk wire and transformers from Illinois power plants. Their refining process involved simple incineration, in which metals were recovered by burning off all combustibles. Incinerator ash at IBS was found to contain 20 ppb tetrachlorodibenzo-p-dioxin (2378 TCDD) by the initial U.S. EPA study. A later U.S. EPA study revealed up to 9.5 ppm 2378-TCDD in site soils at IBS.

Acting on those results, U.S. EPA tracked the movement of materials out of IBS and discovered that copper scrap and incinerator ash were periodically shipped to Chemetco. According to IBS, some, but not all of these shipments included packages of incinerator ash. The quantity of incinerator ash shipped from IBS to Chemetco cannot be determined. The U.S. EPA then tasked Ecology and Environment, Inc., Field Investigation Team (FIT) to design and perform a dioxin study at Chemetco.

## PROCESS

Chemetco's smelting process utilizes copper materials from a variety of sources, including electrical and electronic equipment, skimmings, slags, turnings, grindings, and other residues from foundries and factories, auto parts and building components.

Figure 3 illustrates the Chemetco smelting process in a simplified manner. Copper-bearing raw materials are sent through two smelting furnaces, the second being a higher temperature furnace. The resulting product is 99% pure copper. This copper is then molded into anodes and transferred to an electrolytic bath where electrolysis forms the 99.98% pure copper cathodes. Also illustrated on the diagram are points where products are discharged from the system. Currently, the process ends after the second furnace stage, in which 99% pure copper is the final product.

If dioxin were present in the IBS product refined by Chemetco and if traced through the smelting process (Figure 3), it may have been vaporized and carried with flue gases from smelting furnace #2 to the wet scrubber, and then discharged with flue gases from the wet scrubber.

## OBJECTIVE

The objective of FIT work at Chemetco was to determine the presence or absence of dioxin.

Soil sampling was performed on April 12, 1987. Five samples were chosen to encompass a variety of outlets of the smelting process. (Sample locations are identified in Figure 2). Samples included smelting waste (refining slag), cooling water (sampled indirectly from cooling water canal sediment), and scrubber wastes (polish pit sediment and zinc oxide). A composite sample was also taken of sediment on the unloading (staging) area for stored incoming wastes.

Sample collection procedures are given in Appendix A and sampling equipment is listed in Appendix B.

## SITE ACTIVITIES

Region V FIT personnel conducted the sampling on April 12, 1987. Samples were split with Chemetco and also representatives hired by Chemetco.

Region V FIT personnel involved in sampling were:

- |                  |                     |
|------------------|---------------------|
| 1. Tim Boos      | Team Leader         |
| 2. Craig Almanza | Team Member         |
| 3. Phil Smith    | Team Member         |
| 4. Tim Maley     | Site Safety Officer |
| 5. Kelly Walker  | Sampler             |
| 6. Dirk Kaiser   | Team Member         |

A slag sample (SAS2882E05) was taken from a randomly picked bag of slag housed in a shed near the plant entrance. The shed houses slag samples generated by a statistically based program that Chemetco and the University of Illinois, Edwardsville performed in January 1985. Slag is a by-product of the smelting step.

Sample locations are displayed in Figure 2. Listed below is a summary of sample types.

<u>Sample</u>	<u>Sample Number</u>	<u>Type</u>	<u>Analysis Conducted</u>
Sediment-polish pit	SAS2882E01	grab	2,3,7,8-TCDD and other dioxin and furan isomers.
Sediment-recirculation canal	SAS2882E02	grab	"
Sediment-staging area	SAS2882E03	composite	"
Sludge-sludge bunker	SAS2882E04	composite	"
Slag-Zn02	SAS2882E05	composite	"

## RESULTS

Results of the analyses indicate no 2378-TCDD present, but a number of dioxin isomers are present in four of the samples. Table 1 summarizes the results.

The 2378-TCDD toxic equivalence of these isomers was computed for samples SAS2882E01 through SAS2882E04 (SAS2882E05 showed negligible isomers) (Table 2 provides results). Results indicate the highest equivalence rating is 2.4 ppb for SAS2882E01 (provided below).

Sample Number	2,3,7,8-TCDD ppb*	2,3,7,8-TCDD equivalent (ppb)
SAS2882E01	ND**	2.4152
SAS2882E02	ND	0.2532
SAS2882E03	ND	0.1150
SAS2882E04	ND	0.6134
SAS2882E05	ND	0.00

\* Samples are reported on a dry weight basis.

\*\* ND - Not detected.

## SUMMARY

Sample results show dioxin isomers on-site at the polish pit, old recirculation canal, staging area, and the sludge bunker. The highest levels were at the polish pit, where 2378-TCDD toxic equivalence is 2.4 ppb. All others are less than 1.0 ppb.

19Q:4F(2)

TABLE 1  
4/12/87 SAMPLING RESULTS IN PARTS PER BILLION

	<u>SAS2882E01</u>	<u>SAS2882E02</u>	<u>SAS2882E03</u>	<u>SAS2882E04</u>	<u>SAS2882E05</u>
2378-TCDD	ND	ND	ND	ND	ND
Total TCDD	15.108	0.632	0.297	1.650	ND
12378-PCDD	0.382	0.034	0.036	0.088	ND
Total PCDD	12.905	0.989	0.435	7.000	ND
123478-HxCDD	0.511	0.063	0.029	0.125	ND
123678-HxCDD	1.173	0.152	0.091	0.280	ND
123789-HxCDD	1.812	0.226	0.140	0.396	ND
Total HxCDD	16.645	1.993	0.988	3.362	ND
1234678-HpCDD	10.743	1.678	1.080	2.773	ND
Total HpCDD	20.955	3.269	2.071	5.487	ND
OCDD	20.527	5.053	4.291	9.262	0.058
2378-TCDF	15.972	1.996	0.669	4.396	ND
Total TCDF	71.147	8.874	3.151	20.790	ND
12378-PCDF	2.103	0.259	0.091	0.467	ND
23478-PCDF	6.193	0.692	0.250	1.560	ND
Total PCDF	48.197	5.049	2.184	11.472	ND
123478-HxCDF	10.676	1.426	0.601	2.499	ND
123678-HxCDF	3.744	0.538	0.211	0.960	ND
234678-HxCDF	8.475	1.171	0.468	2.133	ND
123789-HxCDF	0.675	0.083	ND	0.153	ND
Total HxCDF	48.344	6.317	2.560	11.507	ND
1234678-HpCDF	30.401	4.378	1.991	7.267	0.022
1234789-HpCDF	8.209	1.077	0.349	1.736	ND
Total HpCDF	58.975	8.406	3.411	14.385	0.024
OCDF	64.718	9.532	3.281	17.183	0.050
2378TCDD	2.42	0.25	0.12	0.61	NP*
equivalents (rounded)					
2378TCDD	2.4152	0.2532	0.1150	0.6134	NP
equivalents					

\* ND - Toxic equivalence computation not performed.

19Q:2X



TABLE 2  
DIOXIN ISOMERS AND 2378-TCDD EQUIVALENTS (ppb)

	<u>SAS2882E01</u>	<u>SAS2882E02</u>	<u>SAS2882E03</u>	<u>SAS2882E04</u>	<u>SAS2882E05</u>
2378-TCDD	0.0	0.0	0.0	0.0	0.0
Other TCDD	15.1	0.6	0.3	1.6	0.0
2378-TCDF	16.0	2.0	0.7	4.4	0.0
Other TCDF	55.1	6.9	3.2	16.4	0.0
2378-PCDD	0.4	0.0	0.0	0.1	0.0
Other PCDD	12.5	1.0	0.4	1.9	0.0
2378-PCDF	2.1	0.2	0.1	0.5	0.0
Other PCDF	46.1	4.8	2.1	11.0	0.0
2378-HxCDD	1.8	0.2	0.1	0.4	0.0
Other HxCDD	14.8	1.8	0.9	3.0	0.0
2378-HxCDF	0.7	0.1	0.0	0.2	0.0
Other HxCDF	47.6	6.2	2.6	11.3	0.0
2378-HpCDD	0.0	0.0	0.0	0.0	0.0
Other HpCDD	21.0	3.3	2.1	5.5	0.0
2378-HpCDF	0.0	0.0	0.0	0.0	0.0
Other HpCDF	59.0	8.4	3.4	14.4	0.0
OCDD	20.5	5.0	4.3	9.3	0.0
OCDF	64.7	9.5	3.3	17.2	0.0
Sum of 2378-TCDD Equivalents	2.4152	0.2532	0.1150	0.6134	0.0

220:2X

## APPENDIX A

### Soil Sample Collection Procedures:

1. Prior to sampling, check to see that the equipment is clean. If it appears dusty or dirty, it is from insufficient cleaning, handling, or packaging. If this is the case, another piece should be used.
2. Before sampling, the grass should be trimmed to just above the soil surface in the areas to be cored.
3. Soil samples will be collected by forcing a bulb planter into the soil to an approximate depth of four (4) inches. Three to five cores may be needed to obtain a sufficient quantity of soil, enough to fill a 1-quart wide mouth glass container half full. This will constitute one grab sample.
4. When the core is extracted, it will be placed in a clean disposable aluminum foil pan. The cores will be mixed with a clean stainless steel spoon and knife. The stones, roots, twigs, grass, and other foreign debris will be discarded with clean stainless steel tweezers or strawberry hullers.
5. Once the grab sample is collected and all debris removed, place the sample into the glass 1-quart wide mouth container that was cleaned and supplied by Versar. After each grab sample is collected, the disposable aluminum pan, bulb planter, tweezers and spoon should be discarded, and new decontaminated equipment used for the next grab sample.
6. Sediments will be obtained from selected sites in sufficient volume to fill the sampling containers. Samples will be collected with stainless steel spoons and initially placed in a clean, disposable aluminum foil pan. Free water will be decanted from the grab sample of sediments prior to

introduction to the sample containers. After each grab sample is collected, the aluminum foil pan and stainless steel spoon should be discarded, and new decontaminated equipment used for the next grab sample.

7. Fill out all necessary field data forms for the sample and attach identifying labels to the sample jars. Initiate a chain-of-custody record for the sample. Pack the samples for shipment including the required field blanks and performance evaluation samples.
8. Prepare site documents. Since it may be necessary to revisit the site in the future to resample, sample activities must be thoroughly documented. At a minimum, a map should be drawn showing approximate sample locations with distances to two or three permanent features (ex. corner of a building, trees, light poles, etc.). A site photograph is required to document the location.
9. Prepare site map. On a 8 1/2 x 11 inch sheet of paper, draw a map of the sampling site showing its general location (include street names), and the positions of any permanent features such as roads, telephone poles, large trees, etc. Also, note anything which might help to make the site easier to locate for any follow up sampling. Each map should contain the following information: city, county, and/or state names, date of sampling, facility, address, name of site, north arrow, and scale, if applicable.
10. Photograph the sampling site. Place the site number on a large card within the area to be photographed and take a color photograph of the site. Indicate the direction of the photo on the sketched site map. If it can be accomplished

easily, try to include identifying landmarks, such as houses, telephone poles, etc., in the photograph. When the pictures or slides have been developed, write the name of the city, county and state, the site number, and the sampling date on the back of the photos or on the front of the slides.

## APPENDIX B

### Sampling Equipment:

Versar will supply the sample jars. A field blank and a performance evaluation sample will also be submitted for analyses.

There should be very little variation in equipment used in obtaining soil samples. After the sampling locations are chosen, the sample will be collected with a clean bulb planter and placed in the sample jars. To avoid cross contamination among sampling locations, the bulb planter, spoon, knife, tweezer, and the aluminum foil pan will be properly discarded in a 55 gallon drum after sampling at each location. Sampling personnel should inspect all equipment before it is used to ensure it is clean.

#### A. Cleaning of Sampling Equipment

Each piece of sampling equipment will be cleaned prior to the collection of the samples. This should take place in a relatively clean location, not in field locations.

1. A stainless steel wash basin will be used. 1 1/2 tablespoons of Alconox detergent solution will be added per gallon of hot tap water.  
Scrub sample equipment with a wooden handled bristle brush.
2. Rinse equipment with tap water.
3. Final rinse with distilled water.
4. Air dry equipment. Wrap equipment with aluminum foil - dull side out.

## B. Checklist of Supplies and Equipment for Soil Sampling

### 1. Cleaning Supplies and Equipment

- Natural bristle brushes/wooden handles
- Stainless steel wash basins
- Distilled and tap water
- Alconox
- Bulb planters, stainless steel
- Strawberry hullers, stainless steel
- Knives, stainless steel, serrated
- Spoons, stainless steel
- Aluminum foil disposable pans
- Aluminum foil
- Sample kit (supplied and cleaned by Versar to include one quart glass jars and teflon-lined lids, tulip bulb planters, and packaging and shipping materials).
- Gloves, neoprene

### 2. Miscellaneous equipment

- Hammer
- Wood stakes
- USGS maps
- Site maps
- Scale
- Measuring tape
- Compass
- Outdoor thermometer
- Camera and film
- Bound field sampling logbook
- Field data sheets
- Chain-of-custody records
- Masking tape
- Clear plastic tape
- Strapping tape (for specimen boxes)

- Pencils (use preferred over pens)
- Permanent felt-tip markers
- Ice chests (for shipping and to cool samples)
- Ice, baggies
- Vermiculite for sample containers during shipping
- Shipping instructions and appropriate shipping forms

### 3. Decontamination of Personnel and Non-Expendable Sampling Equipment

Non-expendable sampling equipment is thoroughly decontaminated after each use to prevent cross-contamination of samples and contamination of personnel. During the set-up of the on-site sampling and packaging station, an area is designated to be the decontamination zone. This area will consist of an initial wash and four rinse steps as follows:

Note: The sampling surface of the equipment to be cleaned will be scrubbed with a wooden handled natural bristle brush and will not be touched by the personnel without protective wear (gloves and tyvek).

Initial Wash: Alconox detergent solution, 1 1/2 table-spoon per gallon tap water in a stainless steel wash basin.

First Rinse: Rinse with tap water. Shake or drip excess water off equipment.

Second Rinse: Rinse with distilled water. Allow to drip dry.

Third Rinse: Rinse using a plastic squeeze bottle containing specially denatured anhydrous ethyl alcohol. Allow equipment to dry.

Fourth Rinse: Rinse using a squeeze bottle containing trichloroethylene-reagent grade.

Allow equipment to dry. Wrap in foil until required for use.







# Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D048843809

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Chemetco, Inc.  
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Route 3 and Oldenburg Rd.  
03 CITY Hartford  
04 STATE IL 05 ZIP CODE 62202 06 COUNTY Madison  
07 COUNTY CODE 119 08 CONG DIST 21  
09 COORDINATES  
LATITUDE 38 57 30.0 LONGITUDE 090 05 00.0  
10 TYPE OF OWNERSHIP (Check one)  
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL  
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 04/12/87  
MONTH DAY YEAR  
02 SITE STATUS  
☒ ACTIVE  
☐ INACTIVE  
03 YEARS OF OPERATION 1972 | Present  
BEGINNING YEAR ENDING YEAR  
04 AGENCY PERFORMING INSPECTION (Check all that apply)  
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR  
☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER

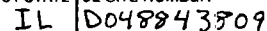
05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Tim Boos	Geological Engineer	E+E	(312) 663-9415
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Tim Maley	Geologist	E+E	(312) 663-9415
Craig Almanza	Environmental Technician	E+E	(312) 663-9415
Phil Smith	Geologist	E+E	(312) 663-9415
Dirk Kaiser	Geologist	E+E	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
None - inspection consisted of dioxin sampling only.			( )
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)  
☒ PERMISSION  
☐ WARRANT  
18 TIME OF INSPECTION 8:00 AM  
19 WEATHER CONDITIONS Sunny, cool 55°F, no breeze

IV. INFORMATION AVAILABLE FROM

01 CONTACT Don Bruce  
02 OF (Agency/Organization) USEPA  
03 TELEPHONE NO. (312) 886-4746  
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Phil Smith  
05 AGENCY FIT  
06 ORGANIZATION Ecology & Environment, Inc.  
07 TELEPHONE NO. (312) 663-9415  
08 DATE 9/15/87  
MONTH DAY YEAR



☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☒ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D048843809

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 <input checked="" type="checkbox"/> A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 2,000	02 <input checked="" type="checkbox"/> OBSERVED (DATE: 9/8/82) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION Sampling performed by the IEPA and Chemetco reveal Arsenic 40 ppm, Copper 3700 ppm, Nickel 5400 ppm, and sulfate 44,100 ppm in the shallow sand and gravel aquifer. Wells sampled were on-site wells monitoring a closed acid disposal pit. Area drinking water wells draw from a deeper sand and gravel aquifer.
01 <input checked="" type="checkbox"/> B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: -0-	02 <input type="checkbox"/> OBSERVED (DATE: N/A) <input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION NPDES limits were repeatedly exceeded for heavy metals in 1982-83. Chemetco discharged plant cooling water into Cahokia Canal which drains into the Mississippi River approximately 1 mile downstream of the discharge point. Cooling water is now recycled. No drinking water intakes are present within 3 miles downstream of site. (since 1986)
01 <input checked="" type="checkbox"/> C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 6,000	02 <input type="checkbox"/> OBSERVED (DATE: N/A) <input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION Chemetco's air permit regulated particulate discharge from furnaces. A 1983 stack test performed by the IEPA showed compliance. Potential exists for unpermitted release due to incineration of wide range of metal wastes including electrical and factory scrap. Stacks are possible route of incinerated dioxin. (See also Part 4, Fig. 9)
01 <input type="checkbox"/> D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: N/A	02 <input type="checkbox"/> OBSERVED (DATE: N/A) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION N/A - Site is not considered a threat by local authorities. There have been no major fires or explosions in the past.
01 <input type="checkbox"/> E DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: N/A	02 <input type="checkbox"/> OBSERVED (DATE: N/A) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION N/A - Site is completely fenced with a 24-hr guard and surveillance system.
01 <input checked="" type="checkbox"/> F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: 40 (Acres)	02 <input checked="" type="checkbox"/> OBSERVED (DATE: 11/21/82) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION Soils from the recirculation canal were sampled by the IEPA and found to contain 63 ppm lead and 10 ppm cadmium. See also item A above.
01 <input checked="" type="checkbox"/> G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 2,000	02 <input type="checkbox"/> OBSERVED (DATE: N/A) <input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION Potential exists for the deep sand and gravel aquifer to be contaminated since the shallow sand and gravel aquifer is contaminated (see item A above). It is unknown whether the shallow and deep aquifers are hydraulically connected.
01 <input checked="" type="checkbox"/> H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: UNKNOWN	02 <input type="checkbox"/> OBSERVED (DATE: N/A) <input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION A former employee alleges that exposure to chemicals during his employment at Chemetco resulted in the medical problems his child now experiences.
01 <input checked="" type="checkbox"/> I POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: 6,000	02 <input type="checkbox"/> OBSERVED (DATE: ) <input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION Routes of exposure include ground water, surface water, air, soil, and worker. See items A, B, C, F, G, and H above.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D048843809

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: N/A)

☐ POTENTIAL

☒ ALLEGED

04 NARRATIVE DESCRIPTION

On 12/2/80 a local farmer alleged to the IEPA that seepage from the Chemetco site was affecting his food crop growth. IEPA did not confirm the allegation in its follow-up of complaint.

01 ☒ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: N/A)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

The potential exists for animals to consume ponded chemicals or contaminated soils and vegetation.

01 ☒ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: N/A)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

The potential exists for contaminants to enter the food chain via any contaminated crops or vegetation. See item K above.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

02 ☒ OBSERVED (DATE: See below)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 2,000

04 NARRATIVE DESCRIPTION Site has a history of unstable containment. 9/83 - IEPA reports contaminated ground water at site. 12/83 - Madison Co. notes cooling water overflow from recirc. canal into adjacent fields. 12/83 - County reports that trench along Old Rd. contains heavy metals. 10/83 - IEPA notes nickel sulfate spill on Oldenburg Rd. 5/83 - IEPA notes zinc oxide runoff from decant pits.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

02 ☐ OBSERVED (DATE:                     )

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A - No reported incidents. Chemetco owns over 100 acres at the facility.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 ☐ OBSERVED (DATE: N/A)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A - No incidents have been reported.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: N/A)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A - Site is not a disposal facility.

05 DIOXIN HISTORY

There has been no past allegations, inspections, or sampling for on-site dioxin contamination.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 6,000

IV. COMMENTS

Information compiled above was garnered from IEPA files and conversations with local, state, and federal authorities. New information on site activities was also sought for this report.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA file information  
RCRA file information  
FIT dioxin sampling 4/87



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D048843809

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A. NPDES	IL0025747	6/27/85	5/1/90	storm water discharge only
<input type="checkbox"/> B. UNC				
<input checked="" type="checkbox"/> C. AIR	expired			last permit app. denied (IEPA)
<input checked="" type="checkbox"/> D. RCRA	ILD048843809	8/15/80		Treatment and storage of
<input checked="" type="checkbox"/> E. RCRA INTERIM STATUS	ILD048843809	11/17/80		hazardous materials permit.
<input type="checkbox"/> F. SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE III. Plant Operating	119801	UNK	UNK	
<input type="checkbox"/> H. LOCAL (Specify)				
<input checked="" type="checkbox"/> I. OTHER III. Furnace	119801	UNK	UNK	
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT	UNKNOWN		<input checked="" type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input checked="" type="checkbox"/> B. PILES	UNKNOWN		<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	UNKNOWN		<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND	UNKNOWN		<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input checked="" type="checkbox"/> G. OTHER RECYCLING/RECOVERY	41 (Acres)
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

This section cannot be adequately addressed in this report given our present file resources and the limited nature of the FIT inspection. The FIT site visit was limited in scope to dioxin sampling only.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one) See comments above

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

N/A See comments above.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

Site is completely fenced and is equipped with a surveillance system.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

RCRA permit application  
State file information  
Personal communication w/IEPA officials.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D048843809

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY  
(Check as applicable)

SURFACE WELL  
COMMUNITY A. ☐ B. ☒  
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED TESTED  
MONITORED  
A. ☐ B. ☐ C. ☒  
D. ☐ E. ☐ F. ☒

03 DISTANCE TO SITE

A. 2.5 (mi)  
B. 500 (mi) ft.

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING  
(Other sources available)  
COMMERCIAL, INDUSTRIAL, IRRIGATION  
(No other water sources available)  
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION  
(Limited other sources available)  
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 2,000

03 DISTANCE TO NEAREST DRINKING WATER WELL 500 (mi) ft.

04 DEPTH TO GROUNDWATER

5 (ft)

05 DIRECTION OF GROUNDWATER FLOW

Southwest

06 DEPTH TO AQUIFER  
OF CONCERN

unknown (ft)

07 POTENTIAL YIELD  
OF AQUIFER

unknown (gpd)

08 SOLE SOURCE AQUIFER

☒ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

The city of Hartford draws from 2 municipal wells located at the city water plant. The wells are 110 ft. deep drawing from sand & gravel. Some rural homes draw from private wells of unknown depth.

10 RECHARGE AREA

☒ YES  
☐ NO

Site area is most probably a recharge area. There are no lakes or swamps on site to indicate discharge.

11 DISCHARGE AREA

☐ YES  
☒ NO

Areas to the south and southwest are low lying and probably local ground water discharge points.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION  
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY  
IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME

Mississippi River

AFFECTED

DISTANCE TO SITE:

☐ 1 (mi)  
☐  
☐

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

A. 100  
NO. OF PERSONS

TWO (2) MILES OF SITE

B. 240  
NO. OF PERSONS

THREE (3) MILES OF SITE

C. 3,000  
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

500 (mi) ft.

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

150

04 DISTANCE TO NEAREST OFF-SITE BUILDING

500 (mi) ft.

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The area within 2 miles of the site is mixed rural and industrial. The area is sparsely populated. At 2-3 miles from the site, Hartford, Mitchell, and a portion of South Roxanna are included. These three towns support 85% of the population within 3 miles of the site.





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D048843809

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-8} - 10^{-6}$  cm/sec ☐ B.  $10^{-4} - 10^{-6}$  cm/sec ☒ C.  $10^{-4} - 10^{-3}$  cm/sec ☐ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than  $10^{-6}$  cm/sec) ☒ B. RELATIVELY IMPERMEABLE ( $10^{-4} - 10^{-6}$  cm/sec) ☐ C. RELATIVELY PERMEABLE ( $10^{-2} - 10^{-4}$  cm/sec) ☐ D. VERY PERMEABLE (Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

120 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

10 (ft)

05 SOIL pH

2 - 10

06 NET PRECIPITATION

36 (in)

07 ONE YEAR 24 HOUR RAINFALL

3 (in)

08 SLOPE  
SITE SLOPE

43 %

DIRECTION OF SITE SLOPE

SW

TERRAIN AVERAGE SLOPE

43 %

09 FLOOD POTENTIAL

leaves  
SITE IS IN N/A YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY  
N/A

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. N/A (mi)

OTHER

B. 2 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

UNK (mi)

ENDANGERED SPECIES: UNKNOWN

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. .5 (mi)

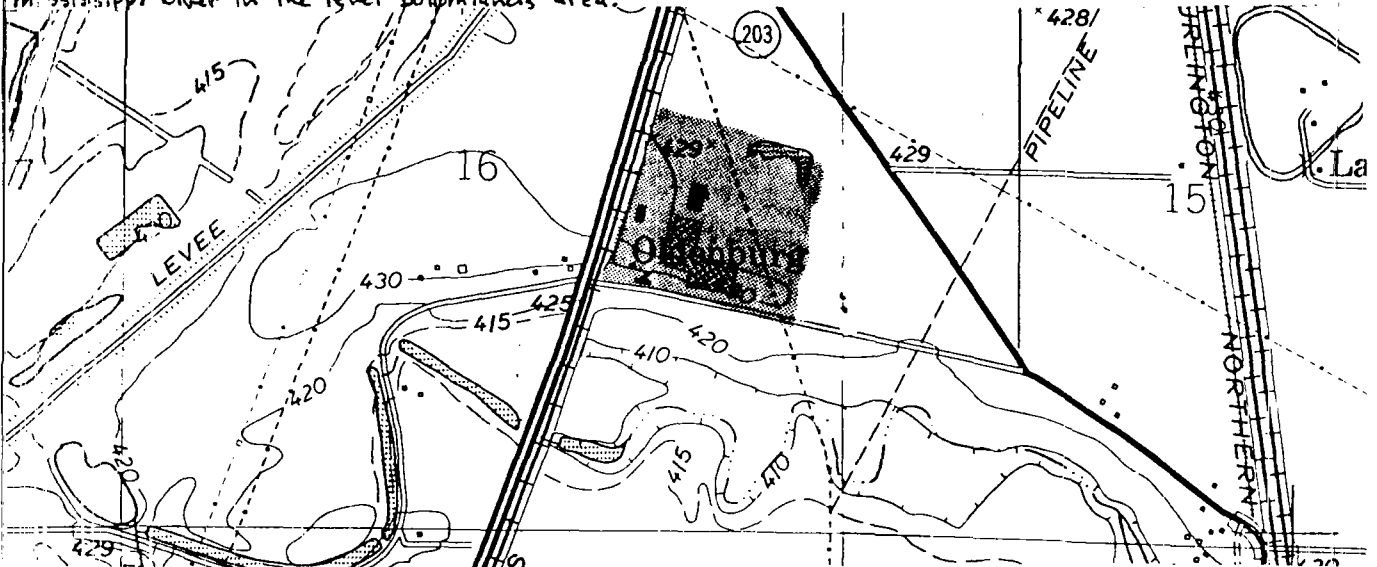
RESIDENTIAL AREAS; NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

B. .25 (mi)

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

C. N/A (mi) D. .25 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY Site is located just east of flood control levee for the Mississippi River in the level bottomlands area.



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Revised Part A + B Application for Chemetco, Inc. Nov. '85



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D048843809

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	5	Triangle Laboratories	July '87
VEGETATION		4915 Prospectus Drive	
OTHER		Suite F Research Triangle Park NC 27709	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
DVA	no readings above background
rad. mini	no readings above background
explosimeter	no reading
O <sub>2</sub> meter	21 % O <sub>2</sub>
monitox	no reading

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment, Inc. <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology & Environment, Inc.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FIT dioxin sampling 4/87



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL 0048843809

II. CURRENT OWNER(S)				PARENT COMPANY (If applicable)			
01 NAME Chemetco Metals Corp.		02 D+B NUMBER		08 NAME None		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) P.O. Box 187		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Alton		06 STATE IL	07 ZIP CODE 62002	12 CITY		13 STATE	14 ZIP CODE
01 NAME Unknown		02 D+B NUMBER		08 NAME Unknown		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (If applicable, list most recent first)			
01 NAME Unknown		02 D+B NUMBER		01 NAME Unknown		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							
State file information							



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D049843809

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (If applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
John Suarez				None			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
P.O. Box 187							
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
Alton		IL	62002				
08 YEARS OF OPERATION		09 NAME OF OWNER					
15 yrs.		Chemetco Metals Corp.					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
None							
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Illinois EPA file information



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D048843809

II. ON-SITE GENERATOR

01 NAME N/A	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D048843809

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED

02 DATE

03 AGENCY

04 DESCRIPTION

Not Applicable - There has been no response activity at Chemetco.

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ D. SPILLED MATERIAL REMOVED

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ E. CONTAMINATED SOIL REMOVED

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ F. WASTE REPACKAGED

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ G. WASTE DISPOSED ELSEWHERE

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ H. ON SITE BURIAL

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ L. ENCAPSULATION

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ M. EMERGENCY WASTE TREATMENT

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ N. CUTOFF WALLS

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ P. CUTOFF TRENCHES/SUMP

02 DATE

03 AGENCY

04 DESCRIPTION

N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL

02 DATE

03 AGENCY

04 DESCRIPTION

N/A



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D048843809

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ S. CAPPING/COVERING

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ T. BULK TANKAGE REPAIRED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ V. BOTTOM SEALED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ W. GAS CONTROL

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ X. FIRE CONTROL

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ Y. LEACHATE TREATMENT

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ Z. AREA EVACUATED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ 2. POPULATION RELOCATED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION  
N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA state officials



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D048843809

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Presently, the IEPA has an Enforcement Action filed before the Illinois Pollution Control Board.

In Dec. '85 the USEPA filed an Administrative Order against Chemetco, Inc. citing RCRA violations and ordering compliance. The Agency has not filed a complaint. They are working jointly with Chemetco on a clean-up Consent Agreement.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personal communication w/ IEPA officials.



Fire and Explosion Hazard

Flammable Materials \_\_\_\_\_

Explosives \_\_\_\_\_

Incompatible Chemicals acids stored

Direct Contact with Acutely Toxic Chemicals

Site Security \_\_\_\_\_

Leaking Drums or Tanks unknown

Open Lagoons or pits unknown

Materials on Surface unknown

Proximity of Population \_\_\_\_\_

Evidence of Casual Site Use unknown

Contaminated Water Supply

Exceeds 10 Day Snarl N / A

Gross Taste or Odors none observed

Alternate Water Available none

Potential Contamination nearby private wells

Is the site abandoned or active?

High

Moderate

Low

+

+

x

x

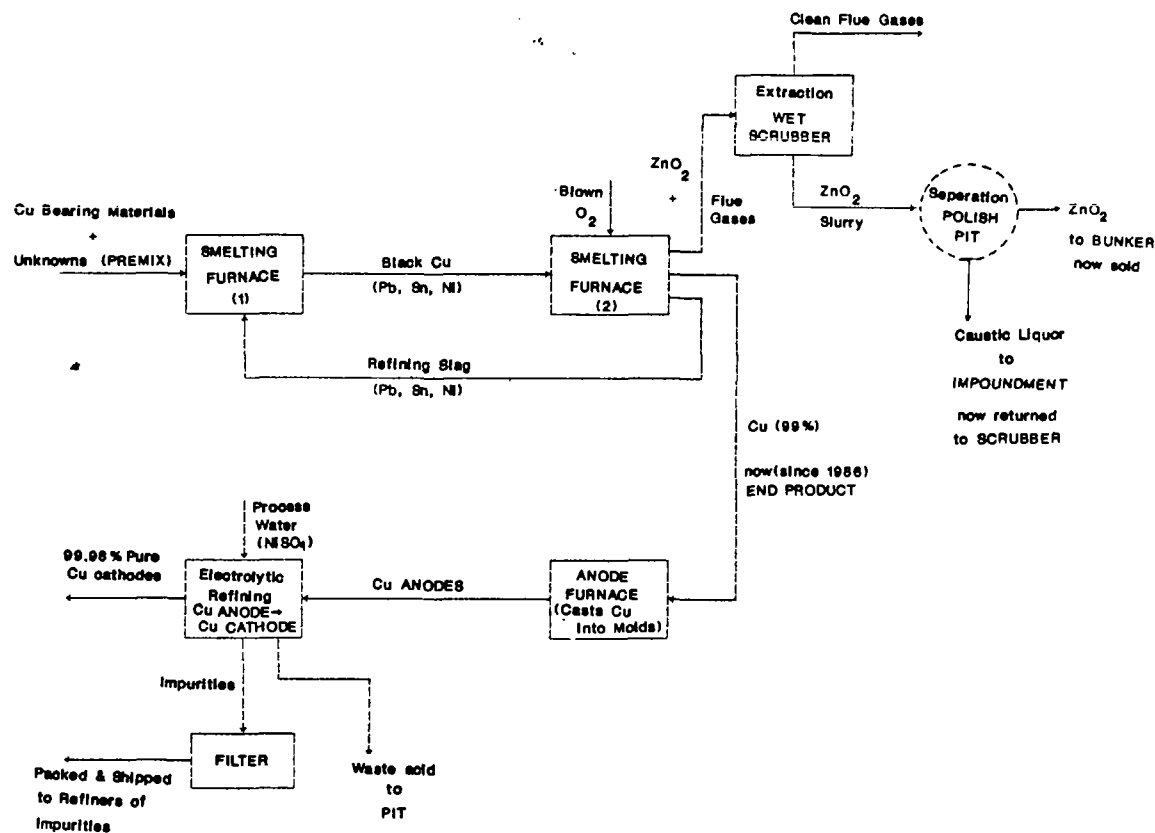
x

x

Comments

Site is regulated under RCRA as a treatment and storage facility.

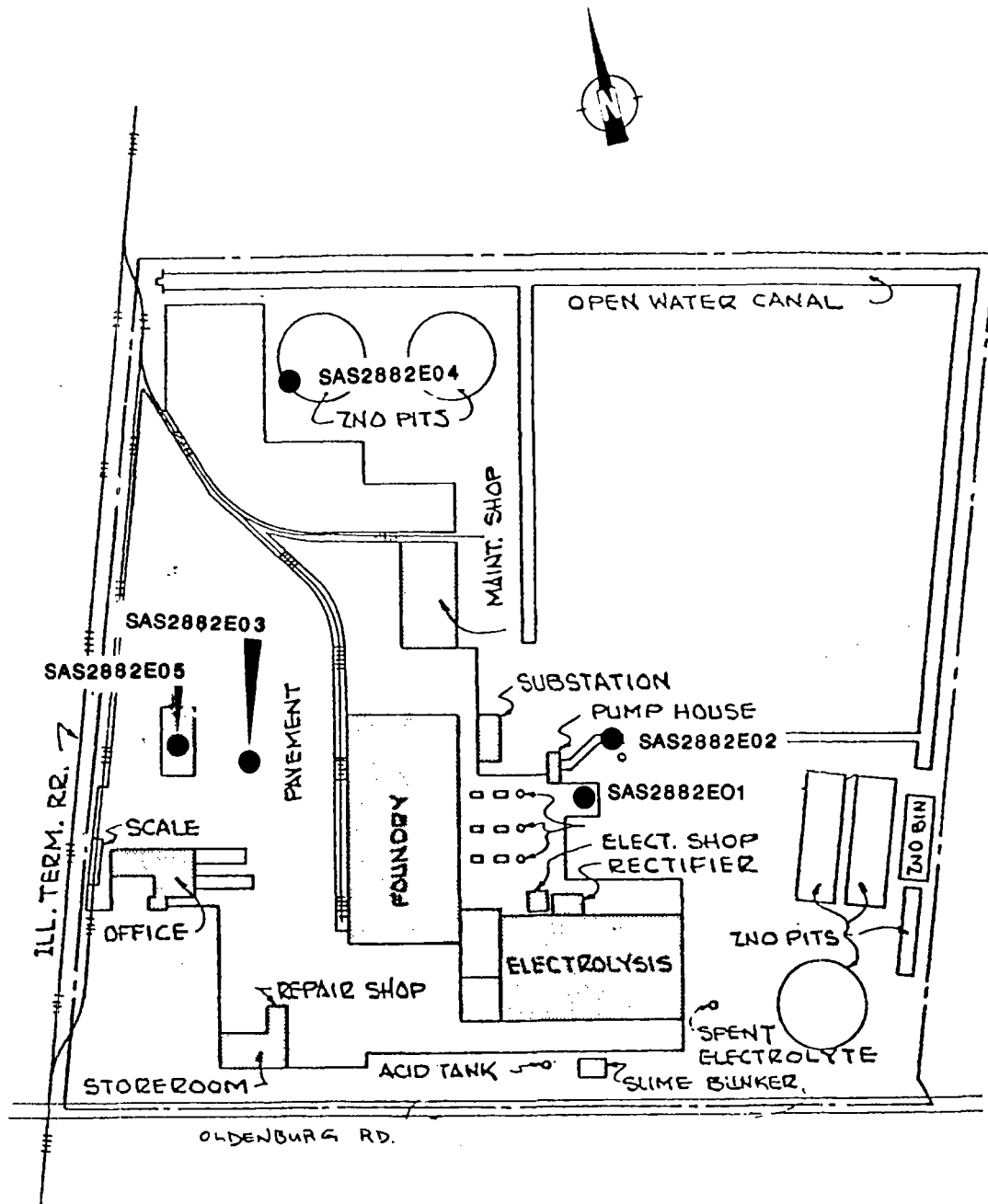




## ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9416

TITLE	PROCESS FLOW CHART	FIGURE #	3
SITE	CHEMETCO, INC.	SCALE	-----
CITY	HARTFORD, IL	STATE	
SOURCE	BASED ON IEPA FILE INFORMATION	P.A.N.	IL0523VA
		DATE	9/87
		REVISED	---



SITE PLAN  
SCALE - 1" = 200'

● FIT SAMPLING  
LOCATIONS

SAS2882E01  
SAS2882E02  
SAS2882E03  
SAS2882E04  
SAS2882E05

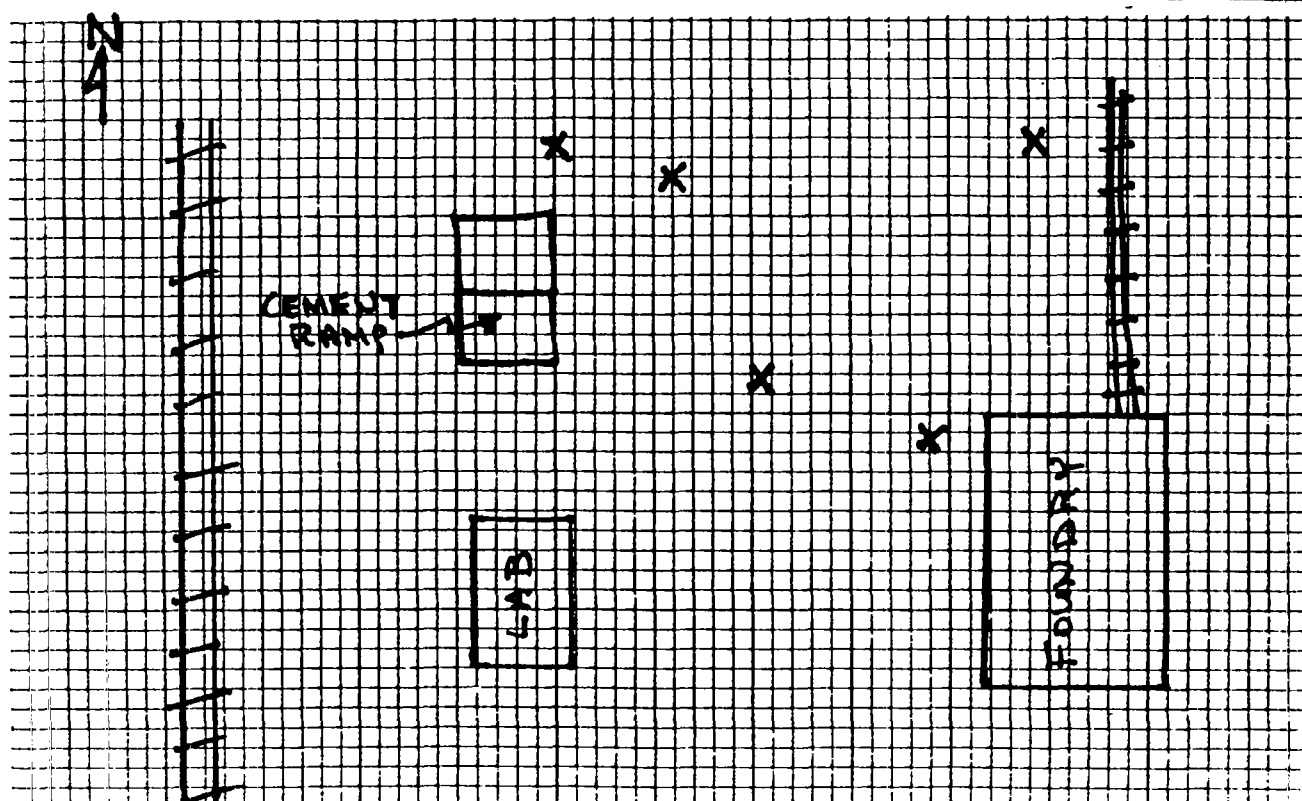
ecology and environment, inc.		
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9416		
TITLE	SITE MAP	FIGURE # 2
SITE	CHEMETCO, INC.	SCALE 1 IN = 200 FT
CITY	HARTFORD	STATE IL
SOURCE	RCRA FILES	P.A.N. IL0523VA
		DATE 11/85
		REVISED 9/87

SITE: Chemetco, Inc.  
Rte 3 and Oldenburg Rd.  
Hartford, IL 62202

TDD: F05-8703-418PAN: IL0523SSILD048843809SAMPLE: SA52882E03SAMPLER: AlmanzaDATE: April 12, 1987TIME: 0830 (AM) PMMETHOD OF SAMPLE COLLECTION: Composite

PHOTOGRAPHY (including directions): \_\_\_\_\_

## SAMPLE LOCATION



X mark for 5 sampling points of composite

DATE 4/12/87TIME 9:05 (A.M.) P.M.

DIRECTION: N NNE NE ENE

E ESE SE SSE

S SSW SW WSW

W WNW NW NNW

WEATHER Sunny55°F, no windSITE Chemtec, Inc.TDD# F05-8703-418

PHOTOGRAPHED BY:

T. Boos

SAMPLE ID# (if applicable)

SAS2882E04DESCRIPTION: Soil sample 04 taken from 3 points in sludge bunker.DATE 4/12/87TIME 9:05 (A.M.) P.M.

DIRECTION: N NNE NE ENE

E ESE SE SSE

S SSW SW WSW

W WNW NW NNW

WEATHER Sunny55°F, no windSITE Chemtec, Inc.TDD# F05-8703-418

PHOTOGRAPHED BY:

T. Boos

SAMPLE ID# (if applicable)

SAS2882E04

PHOTO None Available

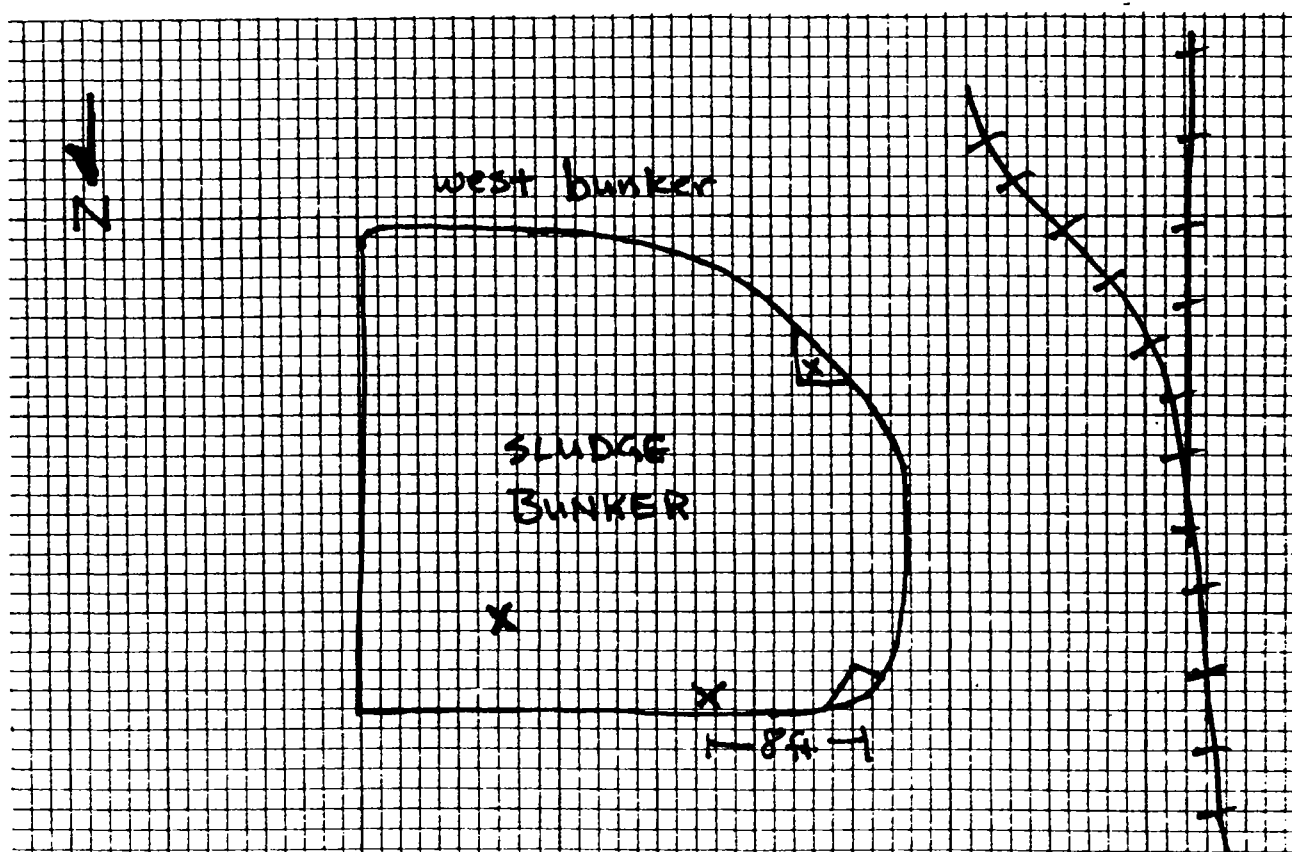
DESCRIPTION: The closeup photo of 04. was double exposed so  
could not be included in this report.

SITE: Chemetco, Inc.  
Rte 3 and Oldenburg Rd.  
Hartford, IL 62202

TDD: F05-8703-418PAN: IL0523SSILD048843809SAMPLE: SA52882E04SAMPLER: AlmanzaDATE: April 12, 1987TIME: 0905 (AM) PMMETHOD OF SAMPLE COLLECTION: Composite

PHOTOGRAPHY (including directions): \_\_\_\_\_

## SAMPLE LOCATION



X mark for 3 sampling points of composite.

SITE: Chemetco, Inc.  
Rte 3 and Oldenburg Rd.  
Hartford, IL 62202

TDD: F05-3703-418

PAN: IL0523SS  
ILD048843809

SAMPLE: SAS2882E01

SAMPLER: Almanza

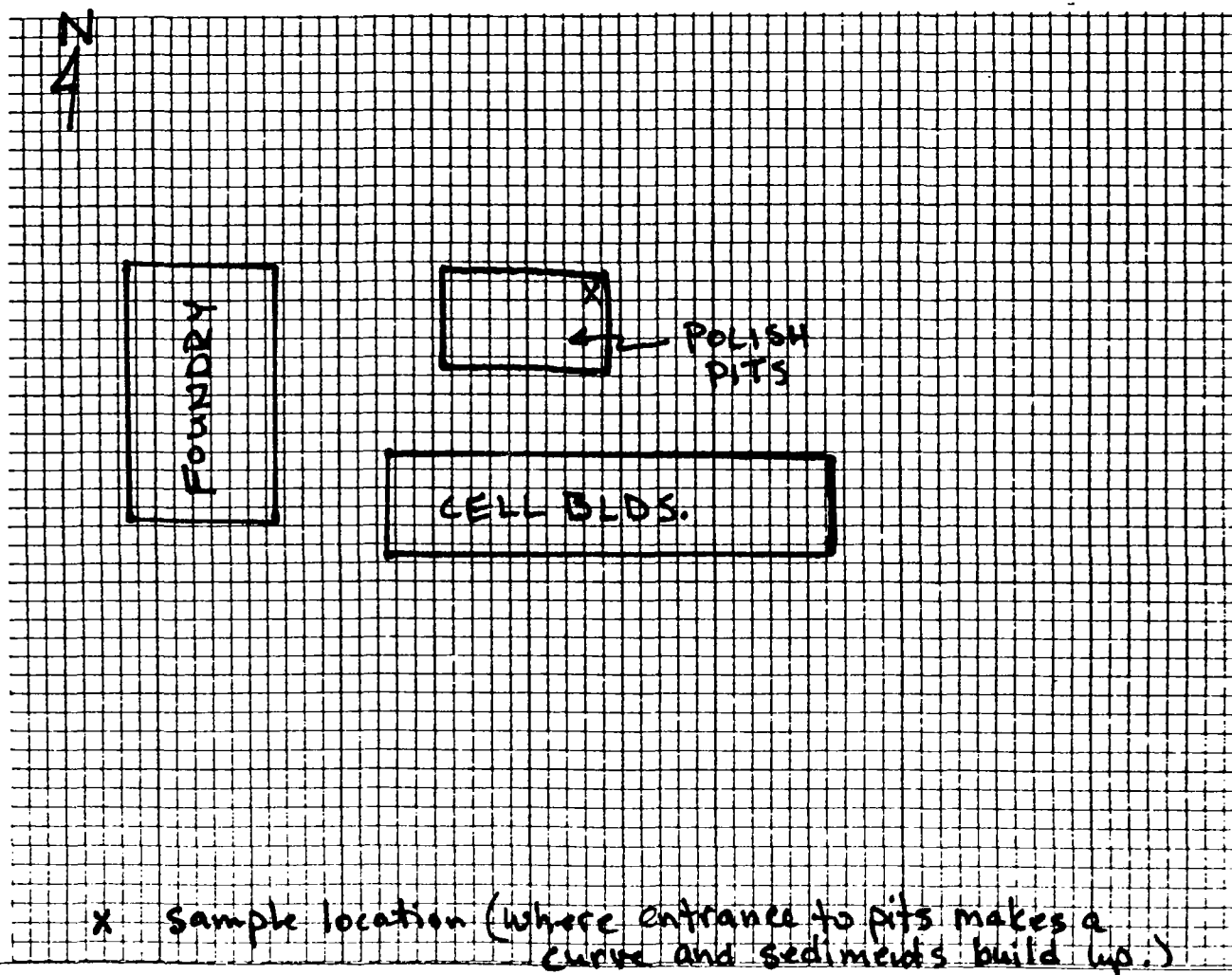
DATE: April 12, 1987

TIME: 0915 (AM) PM

METHOD OF SAMPLE COLLECTION: Grab

PHOTOGRAPHY (including directions): \_\_\_\_\_

### SAMPLE LOCATION





DATE 4/12/87

TIME 9:15 (A.M.) P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER Sunny,  
55°F, no wind

SITE Chemtco

TDD# F05-8703-418

PHOTOGRAPHED BY:

T. Booz

SAMPLE ID# (if applicable)

SAS2882E01



DESCRIPTION: Soil sample 01

DATE 4/12/87

TIME 9:15 (A.M.) P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER Sunny,  
55°F, no wind

SITE Chemtco

TDD# F05-8703-418

PHOTOGRAPHED BY:

T. Booz

SAMPLE ID# (if applicable)

SAS2882E01



DESCRIPTION: Soil sample 01 taken from sludge  
in polish pit. Grab sample



DATE 4/12/87TIME 9:45 (A.M.) P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER Sunny55°F, no windSITE ChemeteoTDD# F05-8703-418

PHOTOGRAPHED BY:

T. Boor

SAMPLE ID# (if applicable)

SAS2882E02DESCRIPTION: Soil sample 02DATE 4/12/87TIME 9:45 (A.M.) P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER Sunny55°F, no windSITE ChemeteoTDD# F05-8703-418

PHOTOGRAPHED BY:

T. Boor

SAMPLE ID# (if applicable)

SAS2882E02DESCRIPTION: Soil sample 02 taken from sludge in old  
recirculation canal, near polish pit. Grab sample.



DATE 4/12/87TIME 10:00 (A.M.) P.M.DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNWWEATHER Sunny,  
55°F, no windSITE ChemtcoTDD# F05-8703-418

PHOTOGRAPHED BY:

T. Boo

SAMPLE ID# (if applicable)

SAS2882E05DESCRIPTION: Soil sample 05 taken from a randomly selected bag  
of slag catalogued by Chemtco (32T-01).DATE 4/12/87TIME 10:00 (A.M.) P.M.DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNWWEATHER Sunny,  
55°F, no windSITE ChemtcoTDD# F05-8703-418

PHOTOGRAPHED BY:

T. Boo

SAMPLE ID# (if applicable)

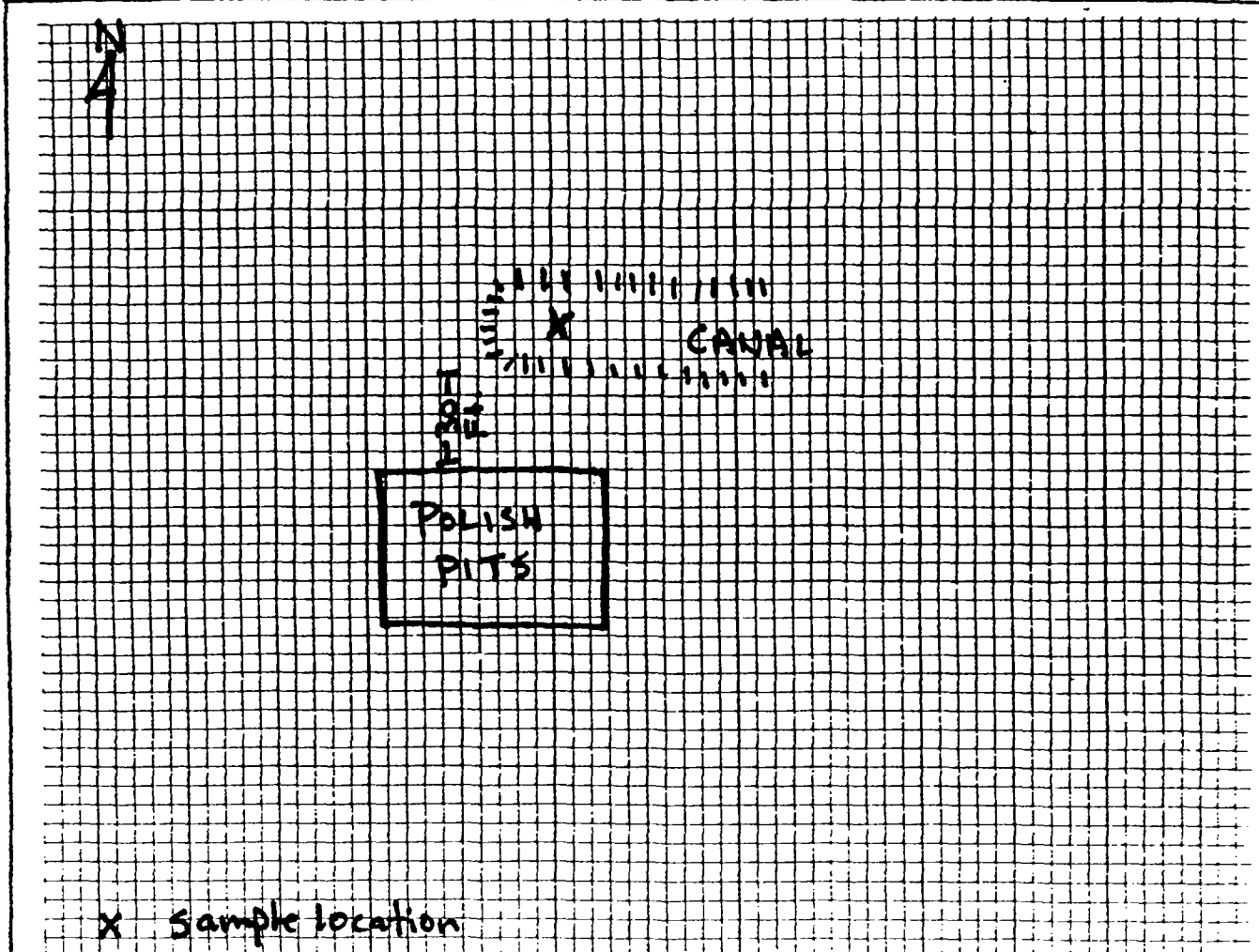
SAS2882E05DESCRIPTION: Soil sample 05.

SITE: Chemetco, Inc.  
Rte 3 and Oldenburg Rd.  
Hartford, IL 62202

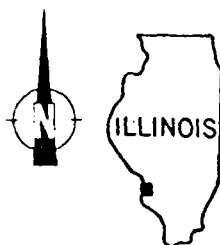
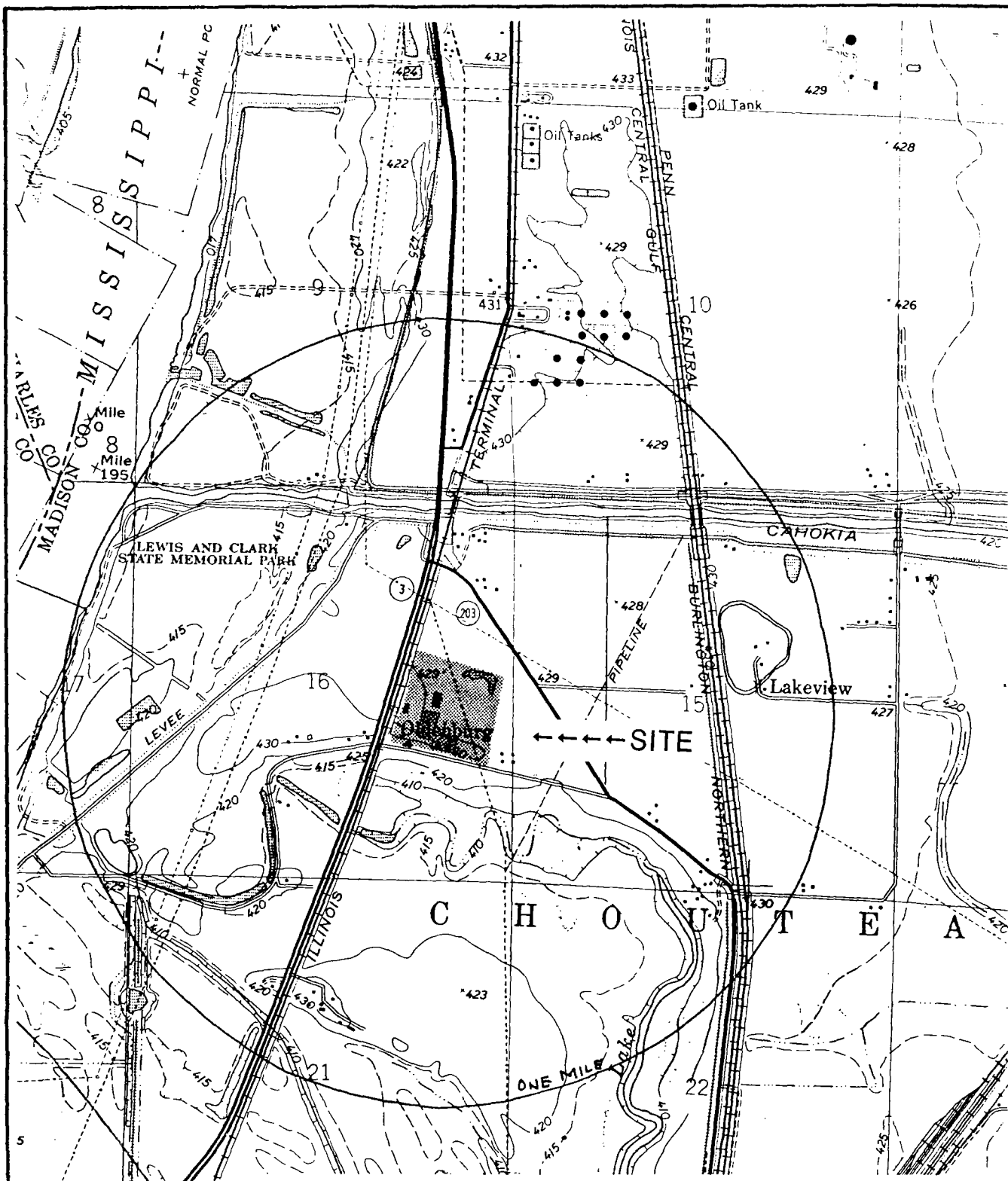
TDD: F05-8703-418PAN: IL0523SSILD048843809SAMPLE: SAS2882E02SAMPLER: AlmanzaDATE: April 12, 1987TIME: 0945 (AM) PMMETHOD OF SAMPLE COLLECTION: Grab

PHOTOGRAPHY (including directions): \_\_\_\_\_

## SAMPLE LOCATION







QUADRANGLE LOCATION

# ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE VICINITY MAP		FIGURE # 1
SITE CHEMETCO, INC.		SCALE 1:24000
CITY HARTFORD, IL	STATE IL	P.A.N. ILO523VA
SOURCE WOOD RIVER, ILL-MO 7.5 MIN QUAD		DATE 1955
		REVISED 1968 ; 1974



DATE 4/12/87

TIME 8:35 (A.M.) P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW WSW  
W WNW NW NNW

WEATHER Sunny  
55°F, no wind

SITE Chemetco

TDD# F05-8703-418

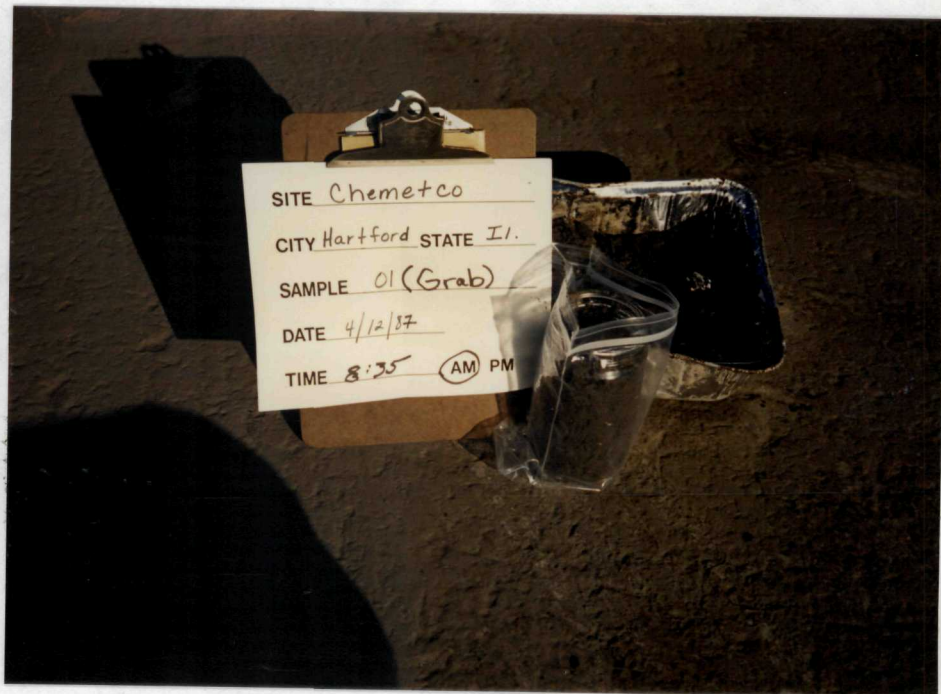
PHOTOGRAPHED BY:

T. Boor

SAMPLE ID# (if applicable)

03 (mismarked 01)  
SAS2882E03

DESCRIPTION: Soil sample 03 (mismarked 01)



DATE 4/12/87

TIME 8:35 (A.M.) P.M.

DIRECTION: N NNE NE ENE  
E ESE SE SSE  
S SSW SW USW  
W WNW NW NNW

WEATHER Sunny  
55°F, no wind

SITE Chemetco

TDD# F05-8703-418

PHOTOGRAPHED BY:

T. Boor

SAMPLE ID# (if applicable)

03 SAS2882E03



DESCRIPTION: Soil sample 03 taken from five points in the staging area. Composite sample.